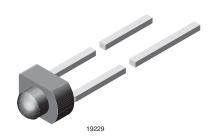


Universal LED, Ø 1.8 mm Tinted Diffused Miniplast Package



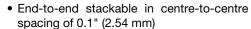
PRODUCT GROUP AND PACKAGE DATA

• Product group: LED

Package: 1.8 mm (miniplast)
Product series: standard
Angle of half intensity: ± 20°

FEATURES

- For DC and pulse operation
- · Luminous intensity categorized



Material categorization:
 For definitions of compliance please see www.vishay.com/doc?99912

Pb-free



ROHS COMPLIANT HALOGEN FREE

FREE GREEN (5-2008)

APPLICATIONS

· General indicating and lighting purposes

PARTS TABLE														
PART	COLOR	LUMINOUS INTENSITY (mcd)		at I _F (nm)		at I _F (mA)	FORWARD VOLTAGE (V)		at I _F (mA)	TECHNOLOGY				
		MIN.	TYP.	MAX.		MIN.	TYP.	MAX.		MIN.	TYP.	MAX.		
TLUR2400	Red	4	15	-	10	-	630	-	10	-	2	3	20	GaAsP on GaP
TLUR2400-AS12	Red	4	15	-	10	-	630	-	10	-	2	3	20	GaAsP on GaP
TLUR2401	Red	4	-	32	10	-	630	-	10	-	2	3	20	GaAsP on GaP
TLUR2401-AS12	Red	4	-	32	10	-	630	-	10	-	2	3	20	GaAsP on GaP

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified) TLUR2400, TLUR2401						
PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT		
Reverse voltage		V_{R}	6	V		
DC forward current		I _F	20	mA		
Surge forward current	t _p ≤ 10 μs	I _{FSM}	0.5	Α		
Power dissipation	T _{amb} ≤ 55 °C	P _V	60	mW		
Junction temperature		T _j	100	°C		
Operating temperature range		T _{amb}	- 40 to + 100	°C		
Storage temperature range		T _{stg}	- 55 to + 100	°C		
Coldovina tompounture	$t \le 3$ s, 2 mm from body	T _{sd}	260	°C		
Soldering temperature	$t \le 5$ s, 4 mm from body	T _{sd}	260	°C		
Thermal resistance junction/ambient		R _{thJA}	450	K/W		



OPTICAL AND ELECTRICAL CHARACTERISTICS ($T_{amb} = 25 ^{\circ}$ C, unless otherwise specified) TLUR2400, TLUR2401, RED							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Luminaus intensitus(1)	1 10 4	TLUR2400	Ι _V	4	15		mcd
Luminous intensity (1)	I _F = 10 mA	TLUR2401	I _V	4		32	mcd
Dominant wavelength	I _F = 10 mA		λ_{d}		630		nm
Peak wavelength	I _F = 10 mA		λ_{p}		640		nm
Angle of half intensity	I _F = 10 mA		φ		± 20		deg
Forward voltage	I _F = 20 mA		V_{F}		2	3	V
Reverse voltage	I _R = 10 μA		V_R	6	15		V
Junction capacitance	V _R = 0 V, f = 1 MHz		Cj		50		pF

Note

 $^{^{(1)}~}$ In one packing unit $I_{Vmin.}/I_{Vmax.} \leq 0.5$

LUMINOUS INTENSITY CLASSIFICATION					
GROUP	LIGHT INTENSITY (mcd)				
STANDARD	MIN.	MAX.			
Р	4	8			
Q	6.3	12.5			
R	10	20			
S	16	32			
Т	25	50			

Note

Luminous intensity is tested at a current pulse duration of 25 ms.
The above type numbers represent the order groups which
include only a few brightness groups. Only one group will be
shipped on each bag (there will be no mixing of two groups on
each bag).

In order to ensure availability, single brightness groups will not be orderable.

In a similar manner for colors where wavelength groups are measured and binned, single wavelength groups will be shipped on any one bag.

In order to ensure availability, single wavelength groups will not be orderable.

TYPCIAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)

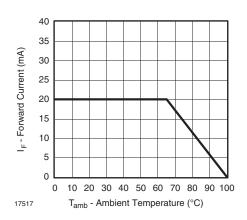


Fig. 1 - Forward Current vs. Ambient Temperature

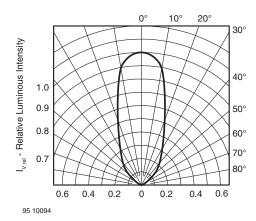


Fig. 2 - Relative Luminous Intensity vs. Angular Displacement

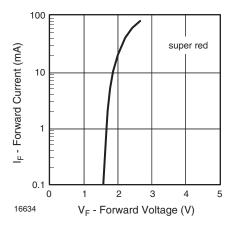


Fig. 3 - Forward Current vs. Forward Voltage

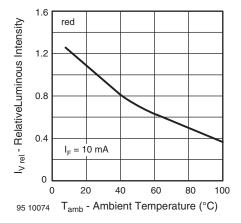


Fig. 4 - Relative Luminous Intensity vs. Ambient Temperature

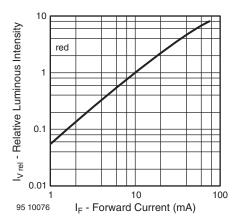


Fig. 5 - Relative Luminous Intensity vs. Forward Current

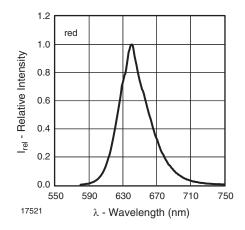
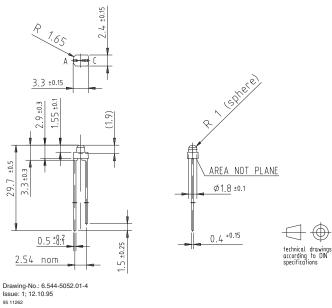


Fig. 6 - Relative Intensity vs. Wavelength

PACKAGE DIMENSIONS in millimeters



Rev. 1.5, 22-Apr-13 3 Document Number: 83288



REEL DIMENSIONS in millimeters

355 52 max. Identification label: Vishay/type/group/tape code/production code/quantity 948641

Fig. 7 - Reel

TAPE

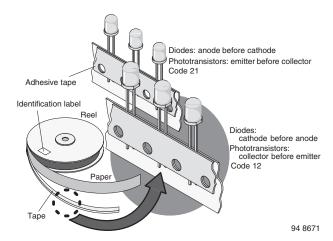
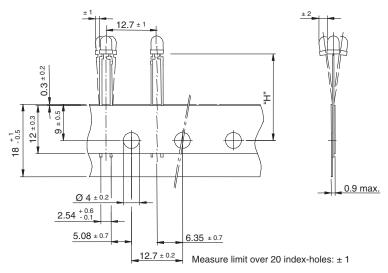


Fig. 8 - LED in Tape

TAPE DIMENSIONS in millimeters



	Reel
Quantity per:	(Mat No. 1764)
	2000

94 8171

Option	Dim. "H" ± 0.5 mm				
AS	17.3				



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Vishay

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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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Revision: 02-Oct-12 Document Number: 91000

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LP379PPG1C0G0300001 SLR-342MC3F SLX-LX3044GD SLX-LX3044ID SLX-LX3044YD 1.90690.3330000 SSS-LX4673ID-410B

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